SIEMENS

Data sheet 3RT2017-1AB01

CONTACTOR, AC-3, 5.5KW/400V, 1NO, AC 24V, 50/60 HZ, 3-POLE, SZ S00 SCREW TERMINAL



| Product brand name | SIRIUS |
|--------------------------|-----------------|
| Product designation | Power contactor |
| Product type designation | 3RT2 |

| General technical data | |
|---|---------------------------|
| Size of contactor | S00 |
| Product extension | |
| function module for communication | No |
| Auxiliary switch | Yes |
| Insulation voltage | |
| • rated value | 690 V |
| Surge voltage resistance rated value | 6 kV |
| maximum permissible voltage for safe isolation | |
| between coil and main contacts acc. to EN | 400 V |
| 60947-1 | |
| Protection class IP | |
| • on the front | IP20 |
| of the terminal | IP20 |
| Shock resistance at rectangular impulse | |
| • at AC | 7,3g / 5 ms, 4,7g / 10 ms |
| | |

| ● at AC Mechanical service life (switching cycles) ● of contactor typical ● of the contactor with added electronics-compatible auxiliary switch block typical ● of the contactor with added auxiliary switch block typical ● of the contactor with added auxiliary switch block typical ■ of the contactor with added auxiliary switch block typical ■ Membient conditions Installation altitude at height above sea level ● maximum Ambient temperature ● during operation ● during storage 11,4g / 5 ms, 7,3g / 10 ms 30 000 000 5 000 000 10 000 000 10 000 000 10 000 00 | Shock resistance with sine pulse | |
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| Installation altitude at height above sea level • maximum Ambient temperature • during operation • during storage • during storage Alain circuit Number of poles for main current circuit 3 Number of NO contacts for main contacts 3 Operating voltage • at AC-3 rated value maximum Operating current • at AC-1 at 400 V — at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value — up to 690 V at ambient temperature 60 °C rated value — up to 690 V at ambient temperature 60 °C rated value — up to 690 V at ambient temperature 60 °C rated value — up to 690 V at ambient temperature 60 °C rated value — up to 690 V at ambient temperature 60 °C rated value — at 690 V rated value — at 600 °C minimum permissible — at 400 °C | block typical | |
| maximum Amblent temperature during operation during storage Asin circuit Number of poles for main current circuit Number of NO contacts for main contacts Operating voltage at AC-3 rated value maximum of sol V Operating current at AC-1 at 400 V — at ambient temperature 40 °C rated value at AC-1 — up to 690 V at ambient temperature 40 °C rated value at AC-2 at 400 V rated value at AC-2 at 400 V rated value at AC-3 at 400 V rated value | Ambient conditions | |
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| • during operation • during storage • during storage • 55 +80 °C Alain circuit Number of poles for main current circuit 3 Number of NO contacts for main currents 3 Operating voltage • at AC-3 rated value maximum • at AC-1 at 400 V — at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value — up to 690 V at ambient temperature 60 °C rated value — up to 690 V at ambient temperature 60 °C rated value — at AC-2 at 400 V rated value • at AC-3 — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 690 V rated value — at 690 V rated value — at 60 °C minimum permissible • at 40 °C minimum permissible • at 400 V rated value • at 690 V rated value | • maximum | 2 000 m |
| * during storage * during storage * during storage Asin circuit Number of poles for main current circuit 3 Number of NO contacts for main contacts 3 Operating voltage * at AC-3 rated value maximum 690 V Operating current * at AC-1 at 400 V | Ambient temperature | |
| Main circuit Number of poles for main current circuit 3 Number of NO contacts for main contacts 3 Operating voltage • at AC-3 rated value maximum 690 V Operating current • at AC-1 at 400 V — at ambient temperature 40 °C rated value • at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value — up to 690 V at ambient temperature 60 °C rated value • at AC-2 at 400 V rated value • at AC-3 — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 690 V rated value — at 690 V rated value - at 60 °C minimum permissible • at 40 °C month of approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value | during operation | -25 +60 °C |
| Number of poles for main current circuit Number of NO contacts for main contacts Operating voltage • at AC-3 rated value maximum Operating current • at AC-1 at 400 V — at ambient temperature 40 °C rated value • at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value — up to 690 V at ambient temperature 60 °C rated value • at AC-2 at 400 V rated value • at AC-3 — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 690 V rated value Solve at AC-1 • at 60 °C minimum permissible • at 40 °C minimum permissible • at 40 °C minimum permissible • at 40 °C minimum permissible • at 400 V rated value • at 690 V rated value | during storage | -55 +80 °C |
| Number of NO contacts for main contacts Operating voltage • at AC-3 rated value maximum Operating current • at AC-1 at 400 V — at ambient temperature 40 °C rated value • at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value — up to 690 V at ambient temperature 60 °C rated value • at AC-2 at 400 V rated value • at AC-3 — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 690 V rated value — at 690 V rated value — at 60 °C minimum permissible • at 40 °C rated value Operating current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value 3.3 A Operating current | Main circuit | |
| Operating voltage • at AC-3 rated value maximum Operating current • at AC-1 at 400 V — at ambient temperature 40 °C rated value • at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value — up to 690 V at ambient temperature 60 °C rated value • at AC-2 at 400 V rated value • at AC-2 at 400 V rated value • at AC-3 — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 690 V rated value — at 60 °C minimum permissible • at 40 °C minimum permissible | - | |
| at AC-3 rated value maximum be at AC-1 at 400 V — at ambient temperature 40 °C rated value at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value — up to 690 V at ambient temperature 60 °C rated value at AC-2 at 400 V rated value at AC-3 — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 690 V rated value 2.5 mm² at 40 °C minimum permissible 4 mm² Operating current for approx. 200000 operating cycles at AC-4 at 400 V rated value 4.1 A at 690 V rated value 3.3 A Operating current | | 3 |
| Operating current • at AC-1 at 400 V — at ambient temperature 40 °C rated value • at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value • at AC-2 at 400 V rated value • at AC-3 — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 690 V rated value • at 4C-1 • at 60 °C minimum permissible • at 40 °C rated value • at 400 V rated value • at 400 °C minimum permissible • at 400 °C minimum p | | |
| at AC-1 at 400 V — at ambient temperature 40 °C rated value at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value — up to 690 V at ambient temperature 60 °C rated value at AC-2 at 400 V rated value at AC-3 — at 400 V rated value at 500 V rated value at 690 V rated value 6.7 A Connectable conductor cross-section in main circuit at AC-1 at 60 °C minimum permissible at 40 °C minimum permissible at 40 °C minimum permissible at 40 °C minimum permissible 4 mm² Operating current for approx. 200000 operating cycles at AC-4 at 400 V rated value 4.1 A at 690 V rated value 3.3 A Operating current | | 690 V |
| at ambient temperature 40 °C rated value at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value — up to 690 V at ambient temperature 60 °C rated value • at AC-2 at 400 V rated value • at AC-3 — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 690 V rated value 6.7 A Connectable conductor cross-section in main circuit at AC-1 • at 60 °C minimum permissible • at 40 °C minimum permissible • at 40 °C minimum permissible • at 40 °C minimum permissible • at 40 °C minimum permissible • at 40 °C minimum permissible • at 400 V rated value • at 400 V rated value • at 690 | | |
| at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value • at AC-2 at 400 V rated value • at AC-3 — at 400 V rated value — at 500 V rated value — at 690 V rated value 6.7 A Connectable conductor cross-section in main circuit at AC-1 • at 60 °C minimum permissible • at 40 °C minimum permissible • at 40 °C minimum permissible • at 400 V rated value Operating current for approx. 200000 operating cycles at AC-4 • at 690 V rated value | | |
| - up to 690 V at ambient temperature 40 °C rated value - up to 690 V at ambient temperature 60 °C rated value • at AC-2 at 400 V rated value • at AC-3 - at 400 V rated value - at 500 V rated value - at 690 V rated value • at 60 °C minimum permissible • at 40 °C minimum permissible • at 400 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value | — at ambient temperature 40 °C rated value | 22 A |
| rated value — up to 690 V at ambient temperature 60 °C rated value • at AC-2 at 400 V rated value • at AC-3 — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 690 V rated value • at 4C-1 • at 60 °C minimum permissible • at 40 °C minimum permissible Operating current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value | • at AC-1 | |
| rated value • at AC-2 at 400 V rated value • at AC-3 — at 400 V rated value — at 500 V rated value — at 690 V rated value 6.7 A Connectable conductor cross-section in main circuit at AC-1 • at 60 °C minimum permissible • at 40 °C minimum permissible • at 40 °C minimum permissible operating current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value | | 22 A |
| at AC-3 — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 60° V rated value 6.7 A Connectable conductor cross-section in main circuit at AC-1 • at 60° C minimum permissible • at 40° C minimum permissible 4 mm² Operating current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value 3.3 A Operating current | · | 20 A |
| - at 400 V rated value 9.2 A - at 690 V rated value 6.7 A Connectable conductor cross-section in main circuit at AC-1 • at 60 °C minimum permissible 2.5 mm² • at 40 °C minimum permissible 4 mm² Operating current for approx. 200000 operating cycles at AC-4 • at 400 V rated value 4.1 A • at 690 V rated value 3.3 A Operating current | • at AC-2 at 400 V rated value | 12 A |
| - at 500 V rated value 9.2 A - at 690 V rated value 6.7 A Connectable conductor cross-section in main circuit at AC-1 • at 60 °C minimum permissible 2.5 mm² • at 40 °C minimum permissible 4 mm² Operating current for approx. 200000 operating cycles at AC-4 • at 400 V rated value 4.1 A • at 690 V rated value 3.3 A Operating current | • at AC-3 | |
| — at 690 V rated value Connectable conductor cross-section in main circuit at AC-1 • at 60 °C minimum permissible • at 40 °C minimum permissible Operating current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • at 690 V rated value Operating current 4.1 A 3.3 A Operating current | — at 400 V rated value | 12 A |
| Connectable conductor cross-section in main circuit at AC-1 • at 60 °C minimum permissible • at 40 °C minimum permissible Operating current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value Operating current Operating current | — at 500 V rated value | 9.2 A |
| at AC-1 • at 60 °C minimum permissible • at 40 °C minimum permissible Operating current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value Operating current Operating current Operating current | — at 690 V rated value | 6.7 A |
| at 60 °C minimum permissible at 40 °C minimum permissible 4 mm² Operating current for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value Operating current | Connectable conductor cross-section in main circuit | |
| at 40 °C minimum permissible Operating current for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value Operating current Operating current 4 mm² 4.1 A 3.3 A | at AC-1 | |
| Operating current for approx. 200000 operating cycles at AC-4 • at 400 V rated value 4.1 A • at 690 V rated value 3.3 A Operating current | • at 60 °C minimum permissible | 2.5 mm ² |
| cycles at AC-4 • at 400 V rated value • at 690 V rated value Operating current 4.1 A 3.3 A | • at 40 °C minimum permissible | 4 mm² |
| • at 690 V rated value Operating current 3.3 A | | |
| Operating current | • at 400 V rated value | 4.1 A |
| | • at 690 V rated value | 3.3 A |
| • at 1 current path at DC-1 | Operating current | |
| | • at 1 current path at DC-1 | |

| 2.1 A 0.8 A 0.6 A 0.6 A 20 A 12 A |
|--|
| 0.6 A 0.6 A 20 A |
| 0.6 A 20 A |
| 20 A |
| |
| |
| 12 A |
| |
| 1.6 A |
| 0.8 A |
| 0.7 A |
| |
| 20 A |
| 20 A |
| 20 A |
| 1.3 A |
| 1 A |
| |
| |
| 20 A |
| 0.1 A |
| |
| 20 A |
| 0.35 A |
| |
| 20 A |
| 20 A |
| 1.5 A |
| 0.2 A |
| 0.2 A |
| |
| |
| 7.5 kW |
| 7.5 kW |
| 13 kW |
| 13 kW |
| 22 kW |
| 22 kW |
| 5.5 kW |
| |
| 3 kW |
| |

| — at 400 V rated value | 5.5 kW |
|---|------------|
| — at 500 V rated value | 5.5 kW |
| — at 690 V rated value | 5.5 kW |
| Operating power for approx. 200000 operating cycles at AC-4 | |
| • at 400 V rated value | 2 kW |
| • at 690 V rated value | 2.5 kW |
| Thermal short-time current limited to 10 s | 96 A |
| Power loss [W] at AC-3 at 400 V for rated value of | 1.2 W |
| the operating current per conductor | |
| No-load switching frequency | |
| • at AC | 10 000 1/h |
| Operating frequency | |
| • at AC-1 maximum | 1 000 1/h |
| • at AC-2 maximum | 750 1/h |
| • at AC-3 maximum | 750 1/h |
| • at AC-4 maximum | 250 1/h |
| | |

| Control circuit/ Control | |
|--|----------|
| Type of voltage of the control supply voltage | AC |
| Control supply voltage at AC | |
| ● at 50 Hz rated value | 24 V |
| • at 60 Hz rated value | 24 V |
| Operating range factor control supply voltage rated value of magnet coil at AC | |
| ● at 50 Hz | 0.8 1.1 |
| ● at 60 Hz | 0.85 1.1 |
| Apparent pick-up power of magnet coil at AC | |
| ● at 50 Hz | 37 V·A |
| ● at 60 Hz | 33 V·A |
| Inductive power factor with closing power of the coil | |
| ● at 50 Hz | 0.8 |
| ● at 60 Hz | 0.75 |
| Apparent holding power of magnet coil at AC | |
| ● at 50 Hz | 5.7 V·A |
| ● at 60 Hz | 4.4 V·A |
| Inductive power factor with the holding power of the coil | |
| ● at 50 Hz | 0.25 |
| ● at 60 Hz | 0.25 |
| Closing delay | |
| ● at AC | 8 33 ms |
| Opening delay | |

| • at AC | 4 15 ms |
|---|------------------|
| Arcing time | 10 15 ms |
| Control version of the switch operating mechanism | Standard A1 - A2 |
| Residual current of the electronics for control with signal <0> | |
| at AC at 230 V maximum permissible | 4 mA |
| • at DC at 24 V maximum permissible | 10 mA |

| Auxiliary circuit | |
|---|---|
| Number of NO contacts | |
| • for auxiliary contacts | |
| instantaneous contact | 1 |
| Operating current at AC-12 maximum | 10 A |
| Operating current at AC-15 | |
| • at 230 V rated value | 10 A |
| • at 400 V rated value | 3 A |
| • at 500 V rated value | 2 A |
| • at 690 V rated value | 1 A |
| Operating current at DC-12 | |
| • at 24 V rated value | 10 A |
| • at 48 V rated value | 6 A |
| • at 60 V rated value | 6 A |
| • at 110 V rated value | 3 A |
| • at 125 V rated value | 2 A |
| • at 220 V rated value | 1 A |
| • at 600 V rated value | 0.15 A |
| Operating current at DC-13 | |
| • at 24 V rated value | 10 A |
| • at 48 V rated value | 2 A |
| • at 60 V rated value | 2 A |
| • at 110 V rated value | 1 A |
| • at 125 V rated value | 0.9 A |
| • at 220 V rated value | 0.3 A |
| • at 600 V rated value | 0.1 A |
| Contact reliability of auxiliary contacts | 1 faulty switching per 100 million (17 V, 1 mA) |

| UL/CSA ratings | |
|--|--------|
| Full-load current (FLA) for three-phase AC motor | |
| • at 480 V rated value | 11 A |
| • at 600 V rated value | 11 A |
| Yielded mechanical performance [hp] | |
| for single-phase AC motor | |
| — at 110/120 V rated value | 0.5 hp |

| — at 230 V rated value | 2 hp |
|--|-------------|
| for three-phase AC motor | |
| — at 200/208 V rated value | 3 hp |
| — at 220/230 V rated value | 3 hp |
| — at 460/480 V rated value | 7.5 hp |
| — at 575/600 V rated value | 10 hp |
| Contact rating of auxiliary contacts according to UL | A600 / Q600 |

Short-circuit protection

Design of the fuse link

- for short-circuit protection of the main circuit
 - with type of coordination 1 required
 - with type of assignment 2 required
- for short-circuit protection of the auxiliary switch required

gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 50 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 25 A

fuse gG: 10 A

| Installation/ mounting/ dimensions | |
|--------------------------------------|--|
| Mounting position | +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface |
| Mounting type | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 |
| Side-by-side mounting | Yes |
| Height | 58 mm |
| Width | 45 mm |
| Depth | 73 mm |
| Required spacing | |
| for grounded parts | |
| — at the side | 6 mm |
| • for live parts | |
| — at the side | 6 mm |

| Connections/Terminals | |
|---|---|
| Type of electrical connection | |
| • for main current circuit | screw-type terminals |
| for auxiliary and control current circuit | screw-type terminals |
| Type of connectable conductor cross-sections | |
| • for main contacts | |
| — solid | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² |
| single or multi-stranded | 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm² |
| finely stranded with core end processing | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) |
| at AWG conductors for main contacts | 2x (20 16), 2x (18 14), 2x 12 |
| Type of connectable conductor cross-sections | |
| for auxiliary contacts | |

- single or multi-stranded

- finely stranded with core end processing

• at AWG conductors for auxiliary contacts

2x (0,5 ... 1,5 mm²), 2x (0,75 ... 2,5 mm²), 2x 4 mm²

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

2x (20 ... 16), 2x (18 ... 14), 2x 12

| Safety related data | |
|--|-----------------|
| B10 value | |
| with high demand rate acc. to SN 31920 | 1 000 000 |
| Proportion of dangerous failures | |
| with low demand rate acc. to SN 31920 | 40 % |
| • with high demand rate acc. to SN 31920 | 73 % |
| Failure rate [FIT] | |
| • with low demand rate acc. to SN 31920 | 100 FIT |
| Product function | |
| Mirror contact acc. to IEC 60947-4-1 | Yes; with 3RH29 |
| T1 value for proof test interval or service life acc. to | 20 y |
| IEC 61508 | |
| Protection against electrical shock | finger-safe |

Certificates/approvals

General Product Approval

Functional Safety/Safety of Machinery









Type Examination



Test Certificates

Marine / Shipping











GL



LRS

Marine / Shipping











Confirmation



Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

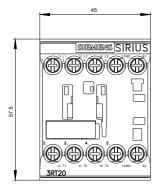
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2017-1AB01

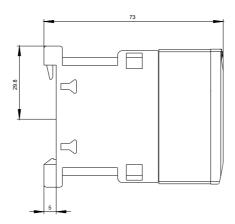
Cax online generator

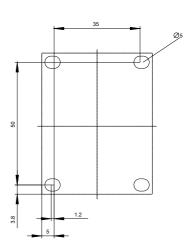
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2017-1AB01

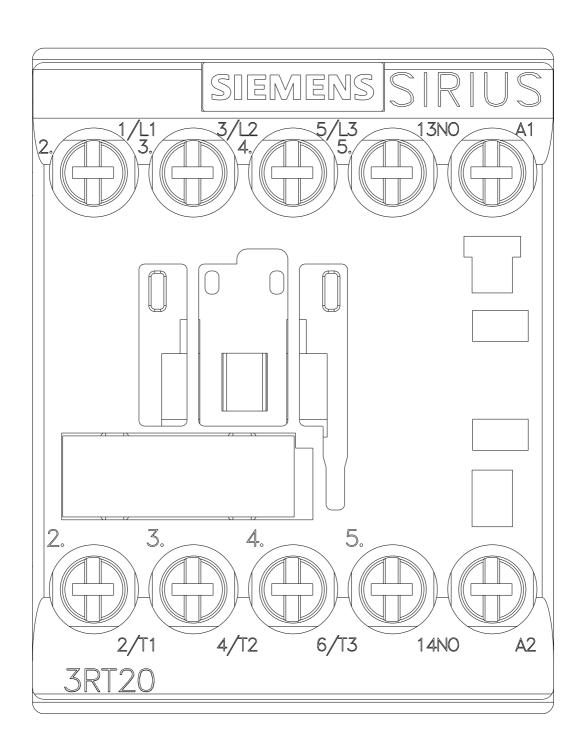
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-1AB01

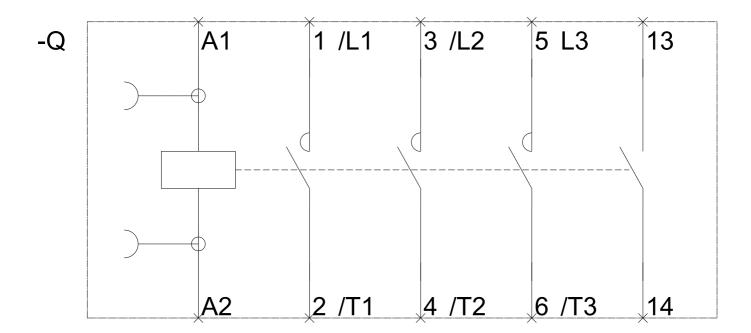
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2017-1AB01&lang=en











last modified: 10/13/2017